

CLAIMS:

1. A vending machine configured to retain objects for distribution, the vending machine comprising
a cabinet defining an interior region sized to receive the objects for
5 distribution,
a door coupled to the cabinet to move between an opened position permitting access to the interior region of the cabinet and a closed position blocking access to the interior region of the cabinet, at least one of the cabinet and door having an opening sized to permit distribution of the objects while the door is in the closed position, and
10 a lock configured to move between a locked position blocking movement of the door from the closed position and an unlocked position permitting movement of the door from the closed position, the lock including a first interactive member, a second interactive member, and a motor configured to power unlocking of the door, the second interactive member being configured to move relative to the first interactive member during at least a
15 portion of the locking of the door absent power from the motor.
2. The vending machine of claim 1, wherein the first interactive member is supported by the door and the second interactive member is support by the cabinet.
3. The vending machine of claim 1, wherein the motor imparts rotational movement to at least one of the first and second interactive members.
- 20 4. The vending machine of claim 1, wherein the motor includes a housing and a shaft, the shaft remains stationary relative to the housing during the relative movement of the first and second interactive members.
5. The vending machine of claim 1, wherein the motor powers at least a portion of the locking of the door
- 25 6. The vending machine of claim 5, wherein the lock further includes a biaser positioned to urge the first and second interactive members into contact.
7. A vending machine configured to retain objects for distribution, the vending machine comprising

a cabinet defining an interior region sized to receive the objects for distribution,

a door coupled to the cabinet to move between an opened position permitting access to the interior region of the cabinet and a closed position blocking access to the interior region of the cabinet, at least one of the cabinet and door having an opening sized to permit distribution of the objects while the door is in the closed position, and

a lock including a lock member configured to move between a locked position blocking movement of the door from the closed position and an unlocked position permitting movement of the door from the closed position, the lock further including a motor configured to power movement of the lock member from the locked position to permit opening of the door.

8. The vending machine of claim 7, wherein the lock further includes means for providing lost motion between the lock member and the motor during locking of the door.

9. The vending machine of claim 7, wherein the motor is configured to power at least a portion of the movement of the door from the opened position to the closed position.

10. The vending machine of claim 7, wherein the lock member includes a first interactive member and a second interactive member that transmits force from the motor to the door.

11. The vending machine of claim 7, wherein the first interactive member is configured to move relative to the second interactive member in a first direction and blocked from movement relative to the second interactive member in a second direction opposite the first direction.

12. The vending machine of claim 7, wherein the motor includes a housing and a shaft, the shaft rotates relative to the housing during powered movement of the lock by the motor, the shaft remains substantially stationary relative to the housing during at least a portion of the locking of the door.

13. The vending machine of claim 7, wherein the motor rotates the lock member.

14. A vending machine configured to retain objects for distribution, the vending machine comprising

5 a cabinet defining an interior region sized to receive the objects for distribution,

a door coupled to the cabinet to move between an opened position permitting access to the interior region of the cabinet, an intermediate position, and a closed position blocking access to the interior region of the cabinet, at least one of the cabinet and door
10 having an opening sized to permit distribution of the objects while the door is in the closed position,

a seal positioned between the cabinet and the door, and

a lock including a lock member and a motor, the door being moveable to the intermediate position by a manual input, the lock member blocking movement of the door to
15 the opened position from the intermediate position, the motor being configured to power movement of the door to the closed position from the intermediate position to compress the seal.

15. The vending machine of claim 14, wherein the lock further includes a first interactive member and a second interactive member, the first interactive member has
20 moving contact with the second interactive member during movement of the door between the opened position and the intermediate position absent power from the motor.

16. The vending machine of claim 14, wherein the motor is configured to power movement of the lock member during unlocking of the door.

17. The vending machine of claim 14, wherein the motor is configured to
25 power movement of the lock member during movement of the door from the intermediate position to the closed position.

18. The vending machine of claim 14, wherein the motor includes a housing and a shaft, the shaft rotates relative to the housing during movement of the door from the intermediate position to the closed position, the shaft remains substantially

stationary relative to the housing when the door moves from the opened position to the closed position.

19. The vending machine of claim 14, wherein the motor stops powering movement of the door when a threshold torque is detected.

5 20. The vending machine of claim 14, further comprising a sensor configured to activate the motor when the door reaches the intermediate position.

521588_1.DOC